M316

Wheeled Excavator

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

Table of Contents

M316 Wheeled Excavator Specifications

Engine

Engine Model	Cat® 4.4	
Engine Power		
ISO 14396:2002	110 kW	148 hp
Net Power		
ISO 9249:2007	105 kW	141 hp
Bore	105 mm	4.1 in
Stroke	127 mm	5 in
Displacement	4.4 L	268.5 in^3
Biodiesel Capability	Up to B20(1)	
Number of Cylinders	4	

- Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, CEM exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed.
- Recommended for use up to 3000 m (9,843 ft) altitude with engine power derate above 3000 m (9,843 ft).
- Rated speed 2,000 rpm.

(1)Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to:

- ✓ 20% biodiesel FAME (fatty acid methyl ester)*
- ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

**Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

***Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

Transmission

Forward/Reverse		
1st Gear	10 km/h	6.2 mph
2nd Gear	35 km/h	21.7 mph
Creeper Speed		
1st Gear	5.5 km/h	3.4 mph
2nd Gear	15 km/h	9.3 mph
Drawbar Pull	102 kN	22,931 lbf
Maximum Gradeability at (16 500 kg/36,380 lb)	78.0%	

Service Refill Capacities

Fuel Tank (total capacity)	350 L	92.5 gal
Diesel Exhaust Fluid Tank	20 L	5.3 gal
Cooling System	24 L	6.3 gal
Engine Oil	13 L	3.4 gal
Hydraulic Tank	120 L	31.7 gal
Hydraulic System (including tank)	260 L	68.7 gal
Rear Axle Housing (differential)	14 L	4 gal
Front Steering Axle (differential)	10.5 L	2.8 gal
Final Drive (each)	2.5 L	0.7 gal
Powershift Transmission	2.5 L	0.7 gal

Swing Mechanism

Maximum Swing Speed	10.2 rpm	
Maximum Swing Torque	43.8 kN·m	32,305 lb-ft

Undercarriage

Ground Clearance	365 mm	14.4 in
Maximum Steering Angle	35°	
Oscillation Axle Angle	± 8.5°	
Minimum Turning Radius		
Outside of Tire	6300 mm	20.7 ft
Outside of Tire (plastic fender)	7550 mm	24.8 ft
End of VA Boom	7300 mm	23.9 ft

Operating Weights*

Typical Configurations		
Blade and Outriggers[1]	16 510 kg	36,400 lb
Front and Rear Outriggers[2]	16 780 kg	36,990 lb

*Operating weight includes full fuel tank, operator and 10.00-20 tires. Weight varies depending on configuration.

[1]Typical configurations include VA boom, 2500 mm (8'2") stick, 2600 kg (5,732 lb) counterweight, 10:00-20 tires, blade and outriggers.

[2]Typical configurations include VA boom, 2500 mm (8'2") stick, 2600 kg (5,732 lb) counterweight, 10:00-20 tires, front and rear outriggers.

Major Component Weights

Boom (including VAB and stick cylinder, pins and standard hydraulic lines)		
Variable Adjustable Boom 5205 mm (17'1")	2200 kg	4,850 lb
Stick (including cylinder, bucket linkage, pins and standard hydraulic lines)		
Stick 2500 mm (8'2")	810 kg	1,790 lb
Counterweights		
Standard	2600 kg	5,730 lb
Optional	3300 kg	7,280 lb
Undercarriage (including axles, standard tires and steps)		
Rear Blade/Front Outrigger	5410 kg	11,930 lb
Rear Outrigger/Front Blade	5410 kg	11,930 lb
Rear Outrigger/Front Outrigger	5680 kg	12,520 lb
Buckets		
Pin-On Bucket GD 1200 mm (47"), 0.80 m^3 (1.05 yd^3)	680 kg	1,500 lb
Pin-On Bucket GD 1200 mm (47"), 0.91 m^3 (1.19 yd^3)	700 kg	1,540 lb
Quick Couplers		
CW30	220 kg	490 lb
Pin Grabber	300 kg	660 lb

Hydraulic System

Maximum Pressure – Implement Circuit		
Normal	35 000 kPa	5,076 psi
Heavy Lift	37 000 kPa	5,366 psi
Travel Circuit	35 000 kPa	5,076 psi
Maximum Pressure – Auxiliary Circuit		
High Pressure	35 000 kPa	5,076 psi
Medium Pressure	17 000 kPa	2,466 psi
Swing Mechanism	35 000 kPa	5,076 psi
Maximum Flow		
Implements	275 L/min	73 gal/min
Travel Circuit	190 L/min	50 gal/min
Auxiliary Circuit		
High Pressure	250 L/min	66 gal/min
Medium Pressure	55 L/min	14.5 gal/min
Swing Mechanism	106 L/min	28.0 gal/min
Cylinders		
Boom Cylinder (VA) – Bore	115 mm	5"
Boom Cylinder (VA) – Stroke	916 mm	3'0"
VAB Cylinder – Bore	140 mm	6"
VAB Cylinder – Stroke	743 mm	2'5"
Stick Cylinder – Bore	120 mm	5"
Stick Cylinder – Stroke	1147 mm	3'9"
Bucket Cylinder – Bore	100 mm	4"
Bucket Cylinder – Stroke	1055 mm	3'6"

Tires

Standard	10.00-20 (dual pneumatic)
Optional	11.00-20 (dual pneumatic) 445/70/R19.5 TL XF (single pneumatic)

M316 Wheeled Excavator Specifications

Dozer Blade

Blade Type	Radial	
Width	2540 mm	8'4"
Blade Roll-Over Height	540 mm	1'9"
Blade Total Height	580 mm	1'11"
Maximum Lowering Depth From Ground	120 mm	5"
Maximum Raising Height Above Ground	475 mm	1'7"

Emissions and Safety

Engine Emissions	Tier 4 Final and Stage V	
Vibration Levels		
Maximum Hand/Arm (ISO 5349-2001)	<2.5 m/s²	<8.2
Maximum Whole Body (ISO/TR 25398:2006)	<0.5 m/s²	<1.6
Seat Transmissibility Factor (ISO 7096:2020-spectral class EM5)	<0.7	

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg of refrigerant, which has a CO_2 equivalent of 1.216 metric tonnes.

Standards

Brakes	ISO 3450:2011
Cab/Rollover Protective Structure (ROPS)	ISO 12117-2:2008
Operator Protective Guards (OPG) (optional)	ISO 10262:1998 Level II
Cab/Sound Levels	Meets appropriate standards as listed below

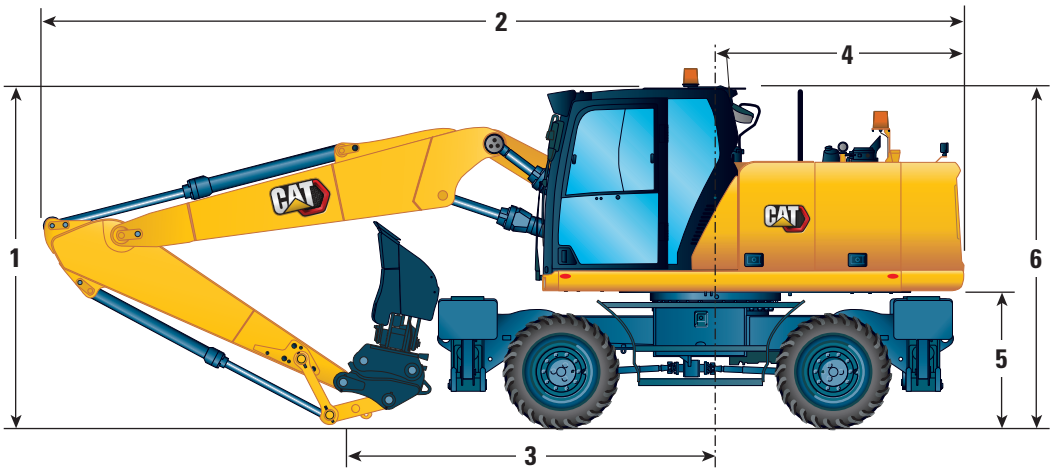
Sound Performance

ISO 6396:2008 internal	70 dB(A)
ISO 6395:2008 external	102 dB(A)

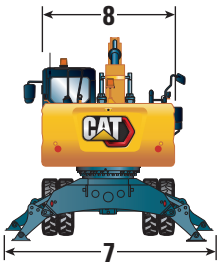
- External Sound – The labelled spectator sound power level represents the Guaranteed Value per 2000/14/EC amended by 2005/88/EC, when properly equipped, and is measured according to the test procedures and conditions specified in ISO 6395:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

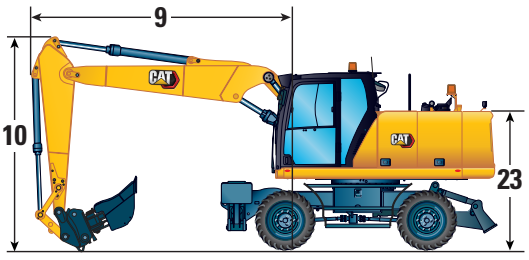
Dimensions

All dimensions are approximate. Values are with 10.00-20 dual pneumatic tires.



Boom Option	Variable Adjustable Boom 5205 mm (17'1")
Stick Option	**2500 mm (8'2")**
1 Shipping Height with Operator Protective Guards (highest point between boom and cab)	3360 mm (11'0")
Shipping Height without OPG	3210 mm (10'6")
2 Shipping Length	8710 mm (28'7")
3 Support Point	3530 mm (11'7")
4 Tail Swing Radius	2350 mm (7'9")
5 Counterweight Clearance	1301 mm (4'3")
6 Cab Height	
No OPG	3194 mm (10'6")
With OPG	3356 mm (11'0")
Overall Machine Width	
Width with Outriggers on Ground	3800 mm (12'6")
Width with Outriggers Up	2540 mm (8'4")
Width with Blade	2540 mm (8'4")
7 Width with Outriggers Fully Down	3645 mm (12'0")
23 Enclosure Height (doors)	2500 mm (8'2")
8 Upperframe Width	2540 mm (8'4")
Roading Position	
9 Steering Wheel to Linkage in Roading Position	2870 mm (9'5")
10 Height in Roading Position	3950 mm (12'12")





M316 Wheeled Excavator Specifications

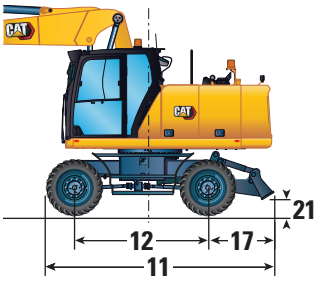
Undercarriage Dimensions

All dimensions are approximate. Values are with 10.00-20 dual pneumatic tires.

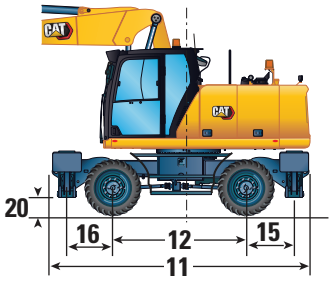
Undercarriage	Rear Blade/ Front Outrigger	Rear Outrigger/ Front Blade	Rear Outrigger/ Front Outrigger
11 Overall Undercarriage Length	4970 mm (16'4")	4970 mm (16'4")	4805 mm (15'9")
12 Wheel Base	2550 mm (8'4")	2550 mm (8'4")	2550 mm (8'4")
13 Swing Bearing Center to Rear Axle Center	1100 mm (3'7")	1100 mm (3'7")	1100 mm (3'7")
14 Swing Bearing Center to Front Axle Center	1450 mm (4'9")	1450 mm (4'9")	1450 mm (4'9")
15 Rear Axle to Rear Outrigger (mid)	—	830 mm (2'9")	830 mm (2'9")
16 Front Axle to Front Outrigger (mid)	925 mm (3'0")	—	925 mm (3'0")
17 Rear Axle to Blade (end)	1270 mm (4'2")	—	—
Front Axle to Blade (end)	—	1315 mm (4'4")	—
18 Maximum Outrigger Depth*	115 mm (5")	115 mm (5")	115 mm (5")
19 Blade Width	2540 mm (8'4")	2540 mm (8'4")	—
Maximum Blade Depth below Ground	120 mm (5")	120 mm (5")	—
Ground Clearance			
Lowest Step Clearance	395 mm (1'4")	395 mm (1'4")	395 mm (1'4")
20 Outrigger Clearance	335 mm (1'1")	335 mm (1'1")	335 mm (1'1")
21 Blade Clearance	475 mm (8'4")	475 mm (8'4")	475 mm (8'4")
22 Axle Clearance	365 mm (1'2")	365 mm (1'2")	365 mm (1'2")

*Maximum tire clearance with outrigger fully down

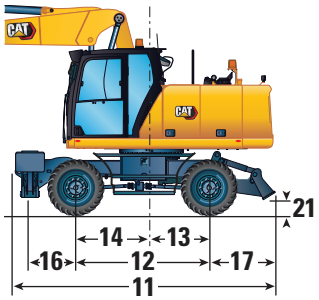
Undercarriage with dozer only



Undercarriage with 2 sets of outriggers

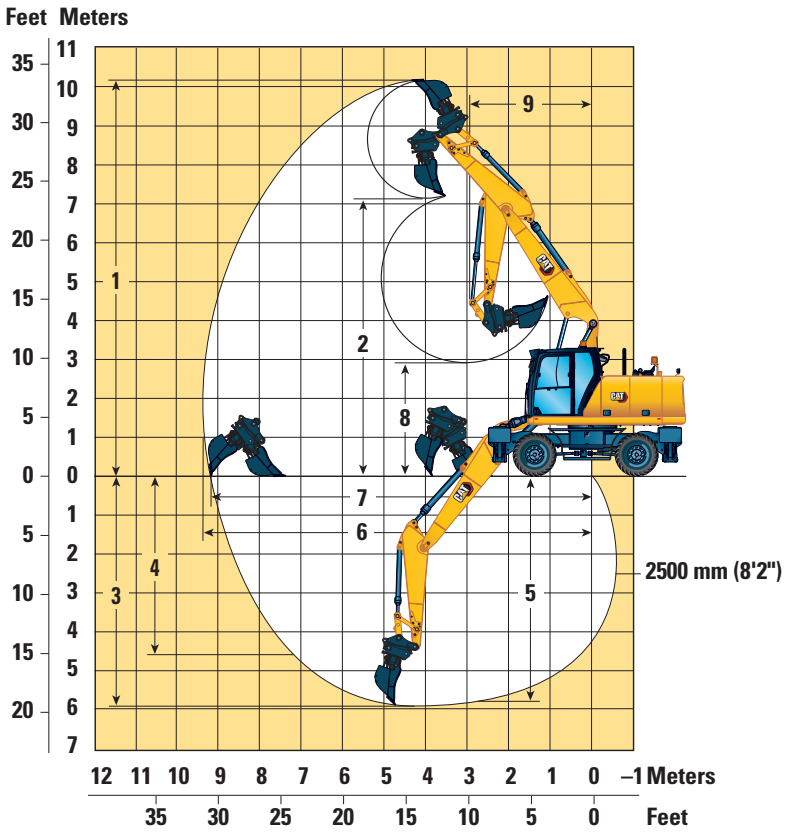


Undercarriage with 1 set of outriggers and dozer



Working Ranges

All dimensions are approximate. Values are with 10.00-20 dual pneumatic tires.



Boom Option	Variable Adjustable Boom 5205 mm (17'1")
Stick Option	**2500 mm (8'2")**
1 Maximum Cutting Height	10 240 mm (33'7")
2 Maximum Loading Height	7280 mm (23'11")
3 Maximum Digging Depth	5920 mm (19'5")
4 Maximum Vertical Wall Digging Depth	4620 mm (15'2")
5 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5810 mm (19'1")
6 Maximum Reach	9390 mm (30'10")
7 Maximum Reach at Ground Line	9220 mm (30'3")
8 Minimum Loading Height	2940 mm (9'8")
9 Minimum Front Swing Radius	2900 mm (9'6")
Bucket Forces (ISO)	119 kN (26,752 lbf)
Stick Forces (ISO)	69 kN (15,512 lbf)
Bucket Type	GD
Bucket Capacity	0.8 m^3 (1.05 yd^3)
Bucket Tip Radius (Pin-On)	1378 mm (4'6")
Bucket Tip Radius (QC)	1484 mm (4'10")

Range values are with dual pneumatic tires (10.00-20).
Range values are calculated with a GD bucket (CW) and CW-30 quick coupler with a tip radius of 1484 mm (4'10").
Force values are calculated with heavy lift on, a GD bucket (pin-on) and a tip radius of 1378 mm (4'6").

M316 Wheeled Excavator Specifications

Lift Capacities – Variable Adjustable Boom (5205 mm), 2500 mm Stick

All values are in kg, work tool: none, bucket cylinder and bucket linkage installed, counterweight: 2600 kg, heavy lift function on.

 Load at maximum reach (sticknose/bucket pin)
 Load over front
 Load over rear
 Load over side
 Load point height

		3000 mm			4500 mm			6000 mm			7500 mm						
	Undercarriage configuration																mm
7500 mm	Front empty – rear radial dozer – raised				*4350	4350	3950							*3050	3050	2900	5280
	Front empty – rear radial dozer – lowered				*4350	*4350	4350							*3050	*3050	3050	
	Front radial dozer – rear stab – lowered				*4350	*4350	*4350							*3050	*3050	*3050	
	Front stab – rear stab – lowered				*4350	*4350	*4350							*3050	*3050	*3050	
6000 mm	Front empty – rear radial dozer – raised				*4300	4300	3950	3950	2650	2400				*2600	2200	1950	6610
	Front empty – rear radial dozer – lowered				*4300	*4300	4300	3950	*4050	2700				*2600	*2600	2200	
	Front radial dozer – rear stab – lowered				*4300	*4300	*4300	*4050	*4050	4050				*2600	*2600	*2600	
	Front stab – rear stab – lowered				*4300	*4300	*4300	*4050	*4050	*4050				*2600	*2600	*2600	
4500 mm	Front empty – rear radial dozer – raised				*5150	4150	3700	3900	2600	2300				2450	1750	1550	7400
	Front empty – rear radial dozer – lowered				*5150	*5150	4150	3850	*4850	2600				2450	*2450	1750	
	Front radial dozer – rear stab – lowered				*5150	*5150	*5150	*4850	*4850	4050				*2450	*2450	2450	
	Front stab – rear stab – lowered				*5150	*5150	*5150	*4850	*4850	*4850				*2450	*2450	*2450	
3000 mm	Front empty – rear radial dozer – raised				5850	3750	3350	3700	2450	2150	2600	1650	1450	2400	1550	1350	7810
	Front empty – rear radial dozer – lowered				5800	*6900	3800	3700	*5150	2450	2600	3900	1700	2400	*2450	1550	
	Front radial dozer – rear stab – lowered				*6900	*6900	6100	*5150	*5150	3850	*3900	3900	2700	*2450	*2450	2450	
	Front stab – rear stab – lowered				*6900	*6900	*6900	*5150	*5150	4700	*3900	*3900	3250	*2450	*2450	*2450	
1500 mm	Front empty – rear radial dozer – raised				5400	3400	2950	3550	2250	2000	2500	1600	1400	2300	1450	1300	7900
	Front empty – rear radial dozer – lowered				5400	*7700	3400	3500	5450	2300	2500	3800	1600	2300	*2550	1500	
	Front radial dozer – rear stab – lowered				*7700	*7700	5700	*5600	*5600	3700	*4350	3950	2650	*2550	*2550	2450	
	Front stab – rear stab – lowered				*7700	*7700	7050	*5600	*5600	4500	*4350	4100	3200	*2550	*2550	2550	
0 mm	Front empty – rear radial dozer – raised				5200	3200	2800	3400	2150	1850	2450	1550	1350	2400	1500	1300	7700
	Front empty – rear radial dozer – lowered				5200	*7700	3200	3400	5300	2150	2450	3750	1550	2350	*2800	1500	
	Front radial dozer – rear stab – lowered				*7700	*7700	5450	*5600	5450	3550	*4150	3900	2600	*2800	*2800	2500	
	Front stab – rear stab – lowered				*7700	*7700	6800	*5600	*5600	4350	*4150	4050	3150	*2800	*2800	2800	
–1500 mm	Front empty – rear radial dozer – raised	*6300	6000	5100	5150	3150	2750	3350	2100	1850				2650	1650	1450	7170
	Front empty – rear radial dozer – lowered	*6300	*6300	6000	5150	*6900	3200	3350	*5050	2100				2600	*3250	1700	
	Front radial dozer – rear stab – lowered	*6300	*6300	*6300	*6900	*6900	5400	*5050	*5050	3500				*3250	*3250	2750	
	Front stab – rear stab – lowered	*6300	*6300	*6300	*6900	*6900	6750	*5050	*5050	4300				*3250	*3250	3250	
–3000 mm	Front empty – rear radial dozer – raised				5250	3250	2800	3450	2150	1900							
	Front empty – rear radial dozer – lowered				5200	*5250	3250	3400	*3500	2200							
	Front radial dozer – rear stab – lowered				*5250	*5250	*5250	*3500	*3500	*3500							
	Front stab – rear stab – lowered				*5250	*5250	*5250	*3500	*3500	*3500							

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load.

Oscillating axle needs to be locked. Weight of all lifting accessories must be subtracted from the lifting capacities. All lift capacities calculated and rated per ISO 10567:2007. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Heavy Lift Function ON. Lifting capacities are based on the machine standing on a firm uniform supporting surface. The load point is the center line of the bucket pivot mounting pin on the stick. Lift capacity is calculated with VA cylinder completely extracted. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Lift Capacities – Variable Adjustable Boom (17'1"), 8'2" Stick

All values are in lb, work tool: none, bucket cylinder and bucket linkage installed, counterweight: 5,730 lb, heavy lift function on.

 Load at maximum reach (sticknose/bucket pin)
 Load over front
 Load over rear
 Load over side
 Load point height

	Undercarriage configuration	10 ft			15 ft			20 ft			25 ft						ft
25 ft	Front empty – rear radial dozer – raised				*9,400	*9,400	8,400							*6,800	*6,800	6,700	16.86
	Front empty – rear radial dozer – lowered				*9,400	*9,400	*9,400							*6,800	*6,800	*6,800	
	Front radial dozer – rear stab – lowered				*9,400	*9,400	*9,400							*6,800	*6,800	*6,800	
	Front stab – rear stab – lowered				*9,400	*9,400	*9,400							*6,800	*6,800	*6,800	
20 ft	Front empty – rear radial dozer – raised				*9,500	9,400	8,400	8,500	5,700	5,100				*5,800	4,900	4,400	21.49
	Front empty – rear radial dozer – lowered				*9,500	*9,500	9,500	8,500	*8,600	5,700				*5,800	*5,800	5,000	
	Front radial dozer – rear stab – lowered				*9,500	*9,500	*9,500	*8,600	*8,600	*8,600				*5,800	*5,800	*5,800	
	Front stab – rear stab – lowered				*9,500	*9,500	*9,500	*8,600	*8,600	*8,600				*5,800	*5,800	*5,800	
15 ft	Front empty – rear radial dozer – raised				*11,200	9,000	8,000	8,300	5,600	5,000				*5,400	3,900	3,400	24.18
	Front empty – rear radial dozer – lowered				*11,200	*11,200	9,000	8,300	*10,500	5,600				*5,400	*5,400	3,900	
	Front radial dozer – rear stab – lowered				*11,200	*11,200	*11,200	*10,500	*10,500	8,700				*5,400	*5,400	*5,400	
	Front stab – rear stab – lowered				*11,200	*11,200	*11,200	*10,500	*10,500	10,500				*5,400	*5,400	*5,400	
10 ft	Front empty – rear radial dozer – raised				12,600	8,100	7,200	8,000	5,200	4,600	5,600	3,600	3,100	5,300	3,400	3,000	25.59
	Front empty – rear radial dozer – lowered				12,500	*14,900	8,200	8,000	*11,200	5,300	5,500	*7,600	3,600	5,300	*5,400	3,400	
	Front radial dozer – rear stab – lowered				*14,900	*14,900	13,100	*11,200	*11,200	8,300	*7,600	*7,600	5,800	*5,400	*5,400	*5,400	
	Front stab – rear stab – lowered				*14,900	*14,900	*14,900	*11,200	*11,200	10,100	*7,600	*7,600	7,000	*5,400	*5,400	*5,400	
5 ft	Front empty – rear radial dozer – raised				11,700	7,300	6,400	7,600	4,900	4,300	5,400	3,400	3,000	5,100	3,200	2,800	25.92
	Front empty – rear radial dozer – lowered				11,600	*16,600	7,400	7,600	11,700	4,900	5,400	8,200	3,500	5,100	*5,600	3,300	
	Front radial dozer – rear stab – lowered				*16,600	*16,600	12,200	*12,100	12,000	7,900	*9,300	8,500	5,700	*5,600	*5,600	5,300	
	Front stab – rear stab – lowered				*16,600	*16,600	15,100	*12,100	*12,100	9,700	*9,300	8,800	6,900	*5,600	*5,600	*5,600	
0 ft	Front empty – rear radial dozer – raised				11,200	6,900	6,000	7,300	4,600	4,000	5,300	3,300	2,900	5,200	3,300	2,900	25.26
	Front empty – rear radial dozer – lowered				11,200	*16,700	7,000	7,300	11,400	4,700	5,300	*7,800	3,400	5,200	*6,100	3,300	
	Front radial dozer – rear stab – lowered				*16,700	*16,700	11,700	*12,100	11,700	7,700	*7,800	*7,800	5,600	*6,100	*6,100	5,500	
	Front stab – rear stab – lowered				*16,700	*16,700	14,600	*12,100	*12,100	9,400	*7,800	*7,800	6,800	*6,100	*6,100	*6,100	
–5 ft	Front empty – rear radial dozer – raised	*14,400	12,800	10,900	11,100	6,800	5,900	7,200	4,500	4,000				5,800	3,700	3,200	23.49
	Front empty – rear radial dozer – lowered	*14,400	*14,400	12,900	11,000	*15,000	6,900	7,200	*10,900	4,600				5,800	*7,200	3,700	
	Front radial dozer – rear stab – lowered	*14,400	*14,400	*14,400	*15,000	*15,000	11,600	*10,900	*10,900	7,600				*7,200	*7,200	6,100	
	Front stab – rear stab – lowered	*14,400	*14,400	*14,400	*15,000	*15,000	14,500	*10,900	*10,900	9,300				*7,200	*7,200	*7,200	
–10 ft	Front empty – rear radial dozer – raised				11,300	7,000	6,100	*7,200	4,700	4,100							
	Front empty – rear radial dozer – lowered				11,200	*11,300	7,000	*7,200	*7,200	4,800							
	Front radial dozer – rear stab – lowered				*11,300	*11,300	*11,300	*7,200	*7,200	*7,200							
	Front stab – rear stab – lowered				*11,300	*11,300	*11,300	*7,200	*7,200	*7,200							

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load.

Oscillating axle needs to be locked. Weight of all lifting accessories must be subtracted from the lifting capacities. All lift capacities calculated and rated per ISO 10567:2007. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Heavy Lift Function ON. Lifting capacities are based on the machine standing on a firm uniform supporting surface. The load point is the center line of the bucket pivot mounting pin on the stick. Lift capacity is calculated with VA cylinder completely extracted. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

M316 Wheeled Excavator Specifications

Lift Capacities – Variable Adjustable Boom (5205 mm), 2500 mm Stick

All values are in kg, work tool: none, bucket cylinder and bucket linkage installed, counterweight: 3300 kg, heavy lift function on.

 Load at maximum reach (sticknose/bucket pin)
 Load over front
 Load over rear
 Load over side
 Load point height

		3000 mm			4500 mm			6000 mm			7500 mm						
	Undercarriage configuration																**mm**
7500 mm	Front empty – rear radial dozer – raised				*4350	4350	4350							*3050	*3050	3050	5280
	Front empty – rear radial dozer – lowered				*4350	*4350	4350							*3050	*3050	*3050	
	Front radial dozer – rear stab – lowered				*4350	*4350	*4350							*3050	*3050	*3050	
	Front stab – rear stab – lowered				*4350	*4350	*4350							*3050	*3050	*3050	
6000 mm	Front empty – rear radial dozer – raised				*4300	4300	4300	4050	3000	2700				*2600	2500	2200	6610
	Front empty – rear radial dozer – lowered				*4300	*4300	4300	4050	*4050	3000				*2600	*2600	2500	
	Front radial dozer – rear stab – lowered				*4300	*4300	4300*	*4050	*4050	4050				*2600	*2600	*2600	
	Front stab – rear stab – lowered				*4300	*4300	*4300	*4050	*4050	*4050				*2600	*2600	*2600	
4500 mm	Front empty – rear radial dozer – raised				*5150	4650	4150	4300	2900	2600				*2450	2000	1800	7400
	Front empty – rear radial dozer – lowered				*5150	*5150	4650	4250	*4850	2950				*2450	*2450	2000	
	Front radial dozer – rear stab – lowered				*5150	*5150	5150*	*4850	*4850	4450				*2450	*2450	*2450	
	Front stab – rear stab – lowered				*5150	*5150	*5150	*4850	*4850	*4850				*2450	*2450	*2450	
3000 mm	Front empty – rear radial dozer – raised				6400	4250	3750	4100	2750	2450	2900	1900	1700	2450	1800	1600	7810
	Front empty – rear radial dozer – lowered				6400	*6900	4250	4100	*5150	2750	2900	*3900	1950	2450	*2450	1800	
	Front radial dozer – rear stab – lowered				*6900	*6900	6700	*5150	*5150	4250	*3900	*3900	3000	*2450	*2450	2450	
	Front stab – rear stab – lowered				*6900	*6900	*6900	*5150	*5150	5150	*3900	*3900	3600	*2450	*2450	*2450	
1500 mm	Front empty – rear radial dozer – raised				6000	3900	3400	3950	2600	2300	2800	1850	1650	2550	1700	1500	7900
	Front empty – rear radial dozer – lowered				6000	*7700	3900	3900	*5600	2600	2800	4200	1850	2550	*2550	1700	
	Front radial dozer – rear stab – lowered				*7700	*7700	6250	*5600	*5600	4100	*4350	4300	2950	*2550	*2550	2550	
	Front stab – rear stab – lowered				*7700	*7700	*7700	*5600	*5600	4950	*4350	*4350	3550	*2550	*2550	*2550	
0 mm	Front empty – rear radial dozer – raised				5800	3700	3200	3800	2450	2200	2750	1800	1600	2650	1750	1550	7700
	Front empty – rear radial dozer – lowered				5800	*7700	3700	3800	*5600	2500	2750	4150	1800	2650	*2800	1750	
	Front radial dozer – rear stab – lowered				*7700	*7700	6050	*5600	*5600	3950	*4150	*4150	2900	*2800	*2800	2800	
	Front stab – rear stab – lowered				*7700	*7700	7500	*5600	*5600	4800	*4150	*4150	3450	*2800	*2800	*2800	
–1500 mm	Front empty – rear radial dozer – raised	*6300	6300	5850	5750	3650	3200	3750	2450	2150				2950	1950	1700	7170
	Front empty – rear radial dozer – lowered	*6300	*6300	6300	5750	*6900	3650	3750	*5050	2450				2950	*3250	1950	
	Front radial dozer – rear stab – lowered	*6300	*6300	*6300	*6900	*6900	6000	*5050	*5050	3900				*3250	*3250	3050	
	Front stab – rear stab – lowered	*6300	*6300	*6300	*6900	*6900	*6900	*5050	*5050	4750				*3250	*3250	*3250	
–3000 mm	Front empty – rear radial dozer – raised				*5250	3700	3250	*3500	2500	2200							
	Front empty – rear radial dozer – lowered				*5250	*5250	3700	*3500	*3500	2500							
	Front radial dozer – rear stab – lowered				*5250	*5250	*5250	*3500	*3500	*3500							
	Front stab – rear stab – lowered				*5250	*5250	*5250	*3500	*3500	*3500							

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load.

Oscillating axle needs to be locked. Weight of all lifting accessories must be subtracted from the lifting capacities. All lift capacities calculated and rated per ISO 10567:2007. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Heavy Lift Function ON. Lifting capacities are based on the machine standing on a firm uniform supporting surface. The load point is the center line of the bucket pivot mounting pin on the stick. Lift capacity is calculated with VA cylinder completely extracted. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Lift Capacities – Variable Adjustable Boom (17'1"), 8'2" Stick

All values are in lb, work tool: none, bucket cylinder and bucket linkage installed, counterweight: 7,280 lb, heavy lift function on.

 Load at maximum reach (sticknose/bucket pin)  Load over front  Load over rear  Load over side  Load point height

	Undercarriage configuration	10 ft			15 ft			20 ft			25 ft						ft
25 ft	Front empty – rear radial dozer – raised				*9,400	*9,400	9,300							*6,800	*6,800	*6,800	16.86
	Front empty – rear radial dozer – lowered				*9,400	*9,400	*9,400							*6,800	*6,800	*6,800	
	Front radial dozer – rear stab – lowered				*9,400	*9,400	*9,400							*6,800	*6,800	*6,800	
	Front stab – rear stab – lowered				*9,400	*9,400	*9,400							*6,800	*6,800	*6,800	
20 ft	Front empty – rear radial dozer – raised				*9,500	*9,500	9,400	*8,600	6,400	5,800				*5,800	5,600	5,000	21.49
	Front empty – rear radial dozer – lowered				*9,500	*9,500	*9,500	*8,600	*8,600	6,400				*5,800	*5,800	5,600	
	Front radial dozer – rear stab – lowered				*9,500	*9,500	*9,500	*8,600	*8,600	*8,600				*5,800	*5,800	*5,800	
	Front stab – rear stab – lowered				*9,500	*9,500	*9,500	*8,600	*8,600	*8,600				*5,800	*5,800	*5,800	
15 ft	Front empty – rear radial dozer – raised				*11,200	10,000	8,900	9,200	6,300	5,600				*5,400	4,500	4,000	24.18
	Front empty – rear radial dozer – lowered				*11,200	*11,200	10,000	9,200	*10,500	6,300				*5,400	*5,400	4,500	
	Front radial dozer – rear stab – lowered				*11,200	*11,200	*11,200	*10,500	*10,500	9,600				*5,400	*5,400	*5,400	
	Front stab – rear stab – lowered				*11,200	*11,200	*11,200	*10,500	*10,500	*10,500				*5,400	*5,400	*5,400	
10 ft	Front empty – rear radial dozer – raised				13,800	9,200	8,100	8,800	5,900	5,300	6,200	4,100	3,700	*5,400	3,900	3,500	25.59
	Front empty – rear radial dozer – lowered				13,800	*14,900	9,200	8,800	*11,200	6,000	6,200	*7,600	4,100	*5,400	*5,400	4,000	
	Front radial dozer – rear stab – lowered				*14,900	*14,900	14,400	*11,200	*11,200	9,200	*7,600	*7,600	6,500	*5,400	*5,400	*5,400	
	Front stab – rear stab – lowered				*14,900	*14,900	*14,900	*11,200	*11,200	11,000	*7,600	*7,600	*7,600	*5,400	*5,400	*5,400	
5 ft	Front empty – rear radial dozer – raised				13,000	8,400	7,400	8,500	5,600	5,000	6,100	4,000	3,500	*5,600	3,800	3,300	25.92
	Front empty – rear radial dozer – lowered				12,900	*16,600	8,400	8,400	*12,100	5,600	6,000	9,000	4,000	*5,600	*5,600	3,800	
	Front radial dozer – rear stab – lowered				*16,600	*16,600	13,500	*12,100	*12,100	8,800	*9,300	9,300	6,300	*5,600	*5,600	*5,600	
	Front stab – rear stab – lowered				*16,600	*16,600	16,600	*12,100	*12,100	10,600	*9,300	*9,300	7,600	*5,600	*5,600	*5,600	
0 ft	Front empty – rear radial dozer – raised				12,500	7,900	7,000	8,200	5,300	4,700	6,000	3,900	3,400	5,900	3,800	3,400	25.26
	Front empty – rear radial dozer – lowered				12,400	*16,700	8,000	8,200	*12,100	5,400	5,900	*7,800	3,900	5,900	*6,100	3,900	
	Front radial dozer – rear stab – lowered				*16,700	*16,700	13,000	*12,100	*12,100	8,500	*7,800	*7,800	6,200	*6,100	*6,100	6,100	
	Front stab – rear stab – lowered				*16,700	*16,700	16,100	*12,100	*12,100	10,300	*7,800	*7,800	7,500	*6,100	*6,100	*6,100	
–5 ft	Front empty – rear radial dozer – raised	*14,400	*14,400	12,600	12,400	7,800	6,900	8,100	5,200	4,600				6,500	4,300	3,800	23.49
	Front empty – rear radial dozer – lowered	*14,400	*14,400	*14,400	12,300	*15,000	7,900	8,100	*10,900	5,300				6,500	*7,200	4,300	
	Front radial dozer – rear stab – lowered	*14,400	*14,400	*14,400	*15,000	*15,000	12,900	*10,900	*10,900	8,400				*7,200	*7,200	6,800	
	Front stab – rear stab – lowered	*14,400	*14,400	*14,400	*15,000	*15,000	*15,000	*10,900	*10,900	10,300				*7,200	*7,200	*7,200	
–10 ft	Front empty – rear radial dozer – raised				*11,300	8,000	7,000	*7,200	5,400	4,800							
	Front empty – rear radial dozer – lowered				*11,300	*11,300	8,000	*7,200	*7,200	5,500							
	Front radial dozer – rear stab – lowered				*11,300	*11,300	*11,300	*7,200	*7,200	*7,200							
	Front stab – rear stab – lowered				*11,300	*11,300	*11,300	*7,200	*7,200	*7,200							

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load.

Oscillating axle needs to be locked. Weight of all lifting accessories must be subtracted from the lifting capacities. All lift capacities calculated and rated per ISO 10567:2007. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Heavy Lift Function ON. Lifting capacities are based on the machine standing on a firm uniform supporting surface. The load point is the center line of the bucket pivot mounting pin on the stick. Lift capacity is calculated with VA cylinder completely extracted. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

M316 Wheeled Excavator Specifications

Bucket Specifications and Compatibility

Contact your Cat dealer for special bucket requirements.

		Width		Capacity		Weight		Fill	2600 kg (5,730 lb) Counterweight				3300 kg (7,280 lb) Counterweight			
									Variable Angle Boom				Variable Angle Boom			
									2500 mm (8'2") Stick				2500 mm (8'2") Stick			
	Linkage	mm	in	m^3	yd^3	kg	lb	%	Free on wheels	Only dozer (blade) lowered	Dozer (blade) and two stabilizers (outrigger) lowered	Four stabilizers (outrigger) lowered	Free on wheels	Only dozer (blade) lowered	Dozer (blade) and two stabilizers (outrigger) lowered	Four stabilizers (outrigger) lowered
Pin-On (No Quick Coupler)																
General Duty	316	600	24	0.35	0.46	454	1,001	100	●	●	●	●	●	●	●	●
	316	750	30	0.49	0.64	516	1,137	100	○	◉	●	●	◉	●	●	●
	316	900	36	0.62	0.81	580	1,278	100	◇	○	●	●	○	◉	●	●
	316	1050	42	0.76	1.00	629	1,386	100	X	◇	●	●	◇	○	●	●
	316	1200	48	0.91	1.19	697	1,538	100	X	X	◉	●	X	◇	●	●
General Duty – Wide Tip	316	600	24	0.42	0.55	473	1,042	100	◉	●	●	●	●	●	●	●
	316	750	30	0.58	0.76	535	1,179	100	○	⊖	●	●	⊖	●	●	●
	316	1050	42	0.90	1.18	670	1,478	100	X	X	●	●	◇	◇	●	●
Severe Duty	316	600	24	0.35	0.46	505	1,113	90	●	●	●	●	●	●	●	●
	316	750	30	0.49	0.64	578	1,274	90	○	◉	●	●	◉	●	●	●
	316	900	36	0.62	0.81	653	1,440	90	◇	○	●	●	⊖	◉	●	●
	316	1050	42	0.76	1.00	708	1,561	90	X	◇	●	●	◇	⊖	●	●
	316	1200	48	0.91	1.19	785	1,731	90	X	X	●	●	X	◇	●	●
Ditch Cleaning	316	1500	60	0.93	1.22	579	1,277	100	X	◇	●	●	◇	○	●	●
Ditch Cleaning Tilt	316	2000	79	0.86	1.12	1,043	2,299	100	X	X	⊖	●	X	X	●	●
Maximum load with pin-on (payload + bucket)								kg	1205	1431	2510	3107	1456	1694	2825	3452
								lb	2,656	3,155	5,533	6,849	3,209	3,735	6,228	7,609

Maximum Material Density:

- ● 2100 kg/m^3 (3,500 lb/yd^3)
- ◉ 1800 kg/m^3 (3,000 lb/yd^3)
- ⊖ 1500 kg/m^3 (2,500 lb/yd^3)
- ○ 1200 kg/m^3 (2,000 lb/yd^3)
- ◇ 900 kg/m^3 (1,500 lb/yd^3)
- X Not Recommended

The above loads are in compliance with hydraulic excavator standard EN474-5:2006+A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled. Capacity based on ISO 7451:2007.

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

(continued on next page)

Bucket Specifications and Compatibility *(continued)*

Contact your Cat dealer for special bucket requirements.

		Width		Capacity		Weight		Fill	2600 kg (5,730 lb) Counterweight Variable Angle Boom 2500 mm (8'2") Stick				3300 kg (7,280 lb) Counterweight Variable Angle Boom 2500 mm (8'2") Stick			
	Linkage	mm	in	m³	yd³	kg	lb	%	Free on wheels	Only dozer (blade) lowered	Dozer (blade) and two stabilizers (outrigger) lowered	Four stabilizers (outrigger) lowered	Free on wheels	Only dozer (blade) lowered	Dozer (blade) and two stabilizers (outrigger) lowered	Four stabilizers (outrigger) lowered
With Pin Grabber Coupler																
General Duty	316	600	24	0.35	0.46	454	1,001	100	○	◉	●	●	◉	●	●	●
	316	750	30	0.49	0.64	516	1,137	100	X	○	●	●	○	◉	●	●
	316	900	36	0.62	0.81	580	1,278	100	X	X	●	●	◇	○	●	●
	316	1050	42	0.76	1.00	629	1,386	100	X	X	●	●	X	◇	●	●
	316	1200	48	0.91	1.19	697	1,538	100	X	X	⊖	●	X	X	◉	●
General Duty – Wide Tip	316	600	24	0.42	0.55	473	1,042	100	◇	⊖	●	●	⊖	●	●	●
	316	750	30	0.58	0.76	535	1,179	100	X	◇	●	●	◇	⊖	●	●
	316	1050	42	0.90	1.18	670	1,478	100	X	X	⊖	●	X	X	●	●
Severe Duty	316	600	24	0.35	0.46	505	1,113	90	○	◉	●	●	◉	●	●	●
	316	750	30	0.49	0.64	578	1,274	90	X	○	●	●	○	◉	●	●
	316	900	36	0.62	0.81	653	1,440	90	X	X	●	●	X	○	●	●
	316	1050	42	0.76	1.00	708	1,561	90	X	X	●	●	X	◇	●	●
	316	1200	48	0.91	1.19	785	1,731	90	X	X	⊖	●	X	X	●	●
General Duty – Pin Grabber Performance	316	600	24	0.33	0.43	436	961	100	○	●	●	●	●	●	●	●
	316	900	36	0.57	0.75	578	1,273	100	X	◇	●	●	◇	○	●	●
Severe Duty – Pin Grabber Performance	316	1050	42	0.70	0.92	712	1,570	90	X	X	●	●	X	◇	●	●
Clean Up											◇	⊖	X	X	○	◉
Ditch Cleaning	316	1500	60	0.64	0.84	830	1,829	100	X	X	●	●	X	X	●	●
	316	1800	72	0.78	1.02	928	2,046	100	X	X	⊖	●	X	X	●	●
Ditch Cleaning Tilt	316	2000	79	0.86	1.12	1,043	2,299	100	X	X	○	●	X	X	⊖	●
Maximum load with coupler (payload + bucket)								kg	874	1100	2179	2776	1125	1363	2494	3121
								lb	1,927	2,425	4,803	6,120	2,480	3,006	5,499	6,880

Maximum Material Density:

- ● 2100 kg/m³ (3,500 lb/yd³)
- ◉ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- ○ 1200 kg/m³ (2,000 lb/yd³)
- ◇ 900 kg/m³ (1,500 lb/yd³)
- X Not Recommended

The above loads are in compliance with hydraulic excavator standard EN474-5:2006+A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451:2007.

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

M316 Wheeled Excavator Specifications

Attachments Offering Guide

Not all attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

✓ Match ● 1800 kg/m³ (3000 lb/yd³) ○ 1200 kg/m³ (2000 lb/yd³)

PIN-ON ATTACHMENTS

Undercarriage		Rear Outrigger/ Front Blade		Rear Blade/ Front Outrigger		Rear Outrigger/ Front Outrigger	
Counterweight		**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**
Boom Type		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**	
Stick Length		**2500 mm (8'2")**		**2500 mm (8'2")**		**2500 mm (8'2")**	
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓
	H115 GC S	✓	✓	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓	✓	✓
Demolition and Sorting Grapples	G314	✓	✓	✓	✓	✓	✓
Mobile Scrap and Demolition Shears	S3015 Flat Top	✓	✓	✓	✓	✓	✓
Pulverizers	P214 Secondary Pulverizer	✓	✓	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓
Mulchers	HM2615	✓	✓	✓	✓	✓	✓
	HM3013	✓	✓	✓	✓	✓	✓
Orange Peel Grapples	GSH420-500	●	●	●	●	●	●
	GSH420-600	●	●	●	●	●	●
	GSH520-500	●	●	●	●	●	●
	GSH520-600	○	○	○	○	○	○

CAT PIN GRABBER COUPLER ATTACHMENTS

Undercarriage		Rear Outrigger/ Front Blade		Rear Blade/ Front Outrigger		Rear Outrigger/ Front Outrigger	
Counterweight		**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**
Boom Type		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**	
Stick Length		**2500 mm (8'2")**		**2500 mm (8'2")**		**2500 mm (8'2")**	
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓
	H115 GC S	✓	✓	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓	✓	✓
Demolition and Sorting Grapples	G314	✓	✓	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓
Mulchers	HM2615	✓	✓	✓	✓	✓	✓
	HM3013	✓	✓	✓	✓	✓	✓

(continued on next page)

Attachments Offering Guide *(continued)*

Not all attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

✓ Match | * Working range front only | No Match

S60 DEDICATED COUPLER ATTACHMENTS

Undercarriage		Rear Outrigger/ Front Blade		Rear Blade/ Front Outrigger		Rear Outrigger/ Front Outrigger		Rear Blade	
Counterweight		**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**
Boom Type		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**	
Stick Length		**2.50 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**	
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓	✓	✓
	H115 GC S	✓	✓	✓	✓	✓	✓		✓
	H115 S	✓	✓	✓	✓	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓	✓	✓		
Demolition and Sorting Grapples	G314	✓	✓	✓	✓	✓	✓		
Mobile Scrap and Demolition Shears	S3015 Flat Top	✓	✓	✓	✓	✓	✓		
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓	✓	✓

HCS60 DEDICATED COUPLER ATTACHMENTS

Undercarriage		Rear Outrigger/ Front Blade		Rear Blade/ Front Outrigger		Rear Outrigger/ Front Outrigger		Rear Blade	
Counterweight		**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**
Boom Type		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**	
Stick Length		**2.50 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**	
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓	✓	✓	✓*	✓
	H120 S	✓	✓	✓	✓	✓	✓		
Demolition and Sorting Grapples	G314	✓	✓	✓	✓	✓	✓		
Mobile Scrap and Demolition Shears	S3015 Flat Top	✓	✓	✓	✓	✓	✓		
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓	✓	✓

(continued on next page)

Attachments Offering Guide *(continued)*

Not all attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

✓ Match | * Working range front only | No Match

HCS65 DEDICATED COUPLER ATTACHMENTS

Undercarriage		Rear Outrigger/ Front Blade		Rear Blade/ Front Outrigger		Rear Outrigger/ Front Outrigger		Rear Blade	
Counterweight		**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**
Boom Type		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**	
Stick Length		**2.50 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**	
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓	✓	✓		✓
	H120 S	✓	✓	✓	✓	✓	✓		
Demolition and Sorting Grapples	G314	✓	✓	✓	✓	✓	✓		
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓	✓	✓

Some attachments require more hydraulic flow and are best suited with a machine that has HP2 circuits and a tiltrotator with a high flow swivel. Check the hydraulic capability of your machine and tiltrotator and the requirements of your attachment to ensure a proper match.

TRS14 (PIN-ON TOP/S60 BOTTOM) ATTACHMENTS

Undercarriage		Rear Outrigger/ Front Blade		Rear Blade/ Front Outrigger		Rear Outrigger/ Front Outrigger		Rear Blade
Counterweight		**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**3300 kg (7,280 lb)**
Boom Type		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**
Stick Length		**2.50 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**
Hydraulic Hammers	H110 GC S	✓	✓	✓	✓	✓	✓	
	H110 S	✓	✓	✓	✓	✓	✓	✓*
	H115 S	✓	✓	✓	✓	✓	✓	
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓	✓

NOTE: Use hammers on tiltrotators less than 10% of working hours per year or maximum 200 hours per year. Refer to your Operation and Maintenance Manual for recommended hydraulic flow requirements.

(continued on next page)

Attachments Offering Guide *(continued)*

Not all attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

✓ Match | * Working range front only | No Match

Some attachments require more hydraulic flow and are best suited with a machine that has HP2 circuits and a tiltrotator with a high flow swivel. Check the hydraulic capability of your machine and tiltrotator and the requirements of your attachment to ensure a proper match.

TRS14 (S60 TOP/S60 BOTTOM) ATTACHMENTS

Undercarriage		Rear Outrigger/ Front Blade		Rear Blade/ Front Outrigger		Rear Outrigger/ Front Outrigger		Rear Blade
Counterweight		**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**3300 kg (7,280 lb)**
Boom Type		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**
Stick Length		**2.50 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**
Hydraulic Hammers	H110 GC S	✓	✓	✓	✓	✓	✓	
	H110 S	✓	✓	✓	✓	✓	✓	
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓	✓*

NOTE: Use hammers on tiltrotators less than 10% of working hours per year or maximum 200 hours per year. Refer to your Operation and Maintenance Manual for recommended hydraulic flow requirements.

Some attachments require more hydraulic flow and are best suited with a machine that has HP2 circuits and a tiltrotator with a high flow swivel. Check the hydraulic capability of your machine and tiltrotator and the requirements of your attachment to ensure a proper match.

TRS14 (PIN-ON TOP/HCS60 BOTTOM) ATTACHMENTS

Undercarriage		Rear Outrigger/ Front Blade		Rear Blade/ Front Outrigger		Rear Outrigger/ Front Outrigger		Rear Blade
Counterweight		**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**3300 kg (7,280 lb)**
Boom Type		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**
Stick Length		**2.50 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓	
	H115 S	✓	✓	✓	✓	✓	✓	
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓	✓*

NOTE: Use hammers on tiltrotators less than 10% of working hours per year or maximum 200 hours per year. Refer to your Operation and Maintenance Manual for recommended hydraulic flow requirements.

(continued on next page)

Attachments Offering Guide *(continued)*

Not all attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

✓ Match

Some attachments require more hydraulic flow and are best suited with a machine that has HP2 circuits and a tiltrotator with a high flow swivel. Check the hydraulic capability of your machine and tiltrotator and the requirements of your attachment to ensure a proper match.

TRS14 (HCS60 TOP/HCS60 BOTTOM) ATTACHMENTS

Undercarriage		Rear Outrigger/ Front Blade		Rear Blade/ Front Outrigger		Rear Outrigger/ Front Outrigger	
Counterweight		**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**
Boom Type		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**	
Stick Length		**2.5 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**	
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓

NOTE: Use hammers on tiltrotators less than 10% of working hours per year or maximum 200 hours per year. Refer to your Operation and Maintenance Manual for recommended hydraulic flow requirements.

Some attachments require more hydraulic flow and are best suited with a machine that has HP2 circuits and a tiltrotator with a high flow swivel. Check the hydraulic capability of your machine and tiltrotator and the requirements of your attachment to ensure a proper match.

TRS14 (PIN-ON TOP/HCS65 BOTTOM) ATTACHMENTS

Undercarriage		Rear Outrigger/ Front Blade		Rear Blade/ Front Outrigger		Rear Outrigger/ Front Outrigger	
Counterweight		**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**	**2600 kg (5,730 lb)**	**3300 kg (7,280 lb)**
Boom Type		**Variable Adjustable Boom**		**Variable Adjustable Boom**		**Variable Adjustable Boom**	
Stick Length		**2.5 m (8'2")**		**2.50 m (8'2")**		**2.50 m (8'2")**	
Hydraulic Hammers	H110 S	✓	✓	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓	✓

NOTE: Use hammers on tiltrotators less than 10% of working hours per year or maximum 200 hours per year. Refer to your Operation and Maintenance Manual for recommended hydraulic flow requirements.

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
BOOM, STICKS AND LINKAGES		
5.2 m (17'1") Variable Adjustable boom	✓	
2.5 m (8'2") stick	✓	
Bucket linkage, 316-family with lifting eye	✓	
CAT TECHNOLOGY		
VisionLink®	✓*	
VisionLink Productivity		✓
Remote Flash	✓	
Remote Troubleshoot	✓	
Cat Grade Connectivity		✓
Cat Grade 2D		✓
Cat Grade 2D with Attachment Ready Option (ARO)		✓
Cat Grade 3D dual GNSS		✓
Laser catcher		✓
Cat Assist: – Grade Assist		✓
Cat Payload: – Static weigh – Semiautomatic calibration – Payload/cycle information – USB reporting capability		✓
Cat Tilt Rotator (TRS) Integration		✓
ELECTRICAL SYSTEM		
LED lights on boom and cab	✓	
LED lights on chassis (left-hand, right-hand) and counterweight		✓
Programmable time-delay LED working lights	✓	
Roading and indicator lights, front and rear	✓	
Maintenance free batteries	✓	
Centralized electrical disconnect switch	✓	
Electrical refueling pump		✓

*Connect subscription only. Additional subscriptions are available. Contact your Cat dealer for availability.

	Standard	Optional
ENGINE		
Cat C4.4 Single Turbo diesel engine (meets Tier 4 Final/Stage V emission standards)	✓	
Power mode selector	✓	
One-touch low idle with automatic engine speed control	✓	
Automatic engine idle shutdown	✓	
Work up to 3000 m (9,842 ft) above sea level without engine power de-rating	✓	
52°C (125°F) high-ambient cooling capacity	✓	
Cold starting capability for –18°C (0°F)	✓	
Double element air filter with integrated precleaner	✓	
Electric fuel priming pump	✓	

(continued on next page)

M316 Standard and Optional Equipment

Standard and Optional Equipment *(continued)*

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
HYDRAULIC SYSTEM		
Boom, stick and bucket drift reduction valves	✓	
Boom and stick lowering check valves		✓
Overload warning	✓	
Electronic main control valve	✓	
Automatic hydraulic oil warm up	✓	
Element type main hydraulic filter	✓	
One-slider joysticks	✓	
Two-slider joysticks		✓
Advanced Tool Control (one/two way high-pressure flow with drift reduction)	✓	
Second high pressure auxiliary circuit (one/two way high-pressure flow)		✓
Medium pressure auxiliary circuit (one/two way medium-pressure flow)		✓
Heavy lift mode	✓	
Quick coupler circuit for Cat pin grabber	✓	
SmartBoom™		✓
Ride control		✓
Joystick steering		✓
Separate dedicated swing pump	✓	
Automatic swing brake	✓	
Cat BIO HYDO™ Advanced biodegradable hydraulic oil		✓
Adjustable hydraulic aggressiveness	✓	
Pattern changer	✓	
SAFETY AND SECURITY		
Rear and right-side-view cameras	✓	
360° visibility		✓
Wide angle mirrors	✓	
Heated and remotely adjustable mirrors		✓
Travel alarm		✓
Signal/warning horn	✓	
Rotating beacon on cab and chassis		✓
Neutral lever (lock out) for all controls	✓	
Ground-level accessible secondary engine shutoff switch in cab	✓	
Lockable disconnect switch	✓	
Bluetooth® receiver	✓	
Anti-skid plate and countersunk bolts on service platform	✓	
2D E-Fence		✓
Inspection lighting		✓

	Standard	Optional
SERVICE AND MAINTENANCE		
Scheduled Oil Sampling (S·O·S℠) ports	✓	
Automatic lubrication system for implement and swing system		✓
Integrated vehicle health management system	✓	
UNDERCARRIAGE AND STRUCTURES		
All wheel drive	✓	
Automatic brake/axle lock	✓	
Creeper speed	✓	
Electronic swing and travel lock	✓	
Heavy-duty axles, advanced disc brake system and travel motor, adjustable braking force	✓	
Oscillating front axle, lockable, with remote greasing point	✓	
10.00-20 16 PR, dual tires		✓
445/70R 19.5, single tires		✓
Steps with tool box in undercarriage (left and right)	✓	
Two-piece drive shaft	✓	
Two speed hydrostatic transmission	✓	
Undercarriage steps		✓
Rear blade (radial)/front outrigger undercarriage		✓
Rear outrigger/front blade (radial) undercarriage		✓
Rear outrigger/front outrigger undercarriage		✓
Fenders, front and rear, synthetic		✓
2600 kg (5,732 lb) counterweight	✓	
3300 kg (7,275 lb) counterweight		✓

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- 75 mm (3") retractable seat belt

SAFETY AND SECURITY

- Bluetooth key fob

GUARDS

- Operator Protective Guards (not compatible with cab light cover, rain protector)
- Mesh guard full front (not compatible with cab light cover, rain protector)

M316 Cab Options

Cab Options

	Deluxe	Premium
Sound-suppressed ROPS cab	●	●
Heated seat with air-adjustable suspension	●	X
Heated and cooled seat with automatic adjustable suspension	X	●
Height-adjustable console, infinite with no tool	●	●
High-resolution 254 mm (10") LCD touchscreen monitor	●	●
Mechanical mirror	●	X
Electrical and adjustable heated mirror	X	●
Automatic bi-level air conditioner	●	●
Jog dial and shortcut keys for monitor control	●	●
Keyless push-to-start engine control	●	●
51 mm (2") orange seat belt	●	●
Unfastened seat belt warning	●	●
Auxiliary relay	○	○
Bluetooth integrated radio (including USB, auxiliary port and microphone)	●	●
2 × 12V DC outlets	●	●
Document storage	●	●
Cup and bottle holders	●	●
Openable two-piece front window (laminated)	●	●
Parallel wiper with washer	●	●
Fixed glass skylight	●	●
LED dome lights	●	●
Foot illumination	●	●
Roller rear sunscreen	X	●
Rear window emergency exit	●	●
Washable floor mat	●	●
Beacon ready	●	●
OPG “ready”	●	●
Vandal guards “ready”	●	●
Two LED cab lights	●	●
Rain visor	●	●

● Standard

○ Optional

X Not available

M316 Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit https://www.caterpillar.com/en/company/sustainability.

Engine

- The Cat® C4.4 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
  - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

  Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

  **Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

  ***Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.8 kg (1.8 lb) of refrigerant which has a CO_2 equivalent of 1.216 metric tonnes (1.340 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - Barium < 0.01%
  - Cadmium < 0.01%
  - Chromium < 0.01%
  - Lead < 0.01%

Sound Performance

ISO 6396:2008 internal	70 dB(A)
ISO 6395:2008 external	102 dB(A)

- External Sound – The labelled spectator sound power level represents the Guaranteed Value per 2000/14/EC amended by 2005/88/EC, when properly equipped, and is measured according to the test procedures and conditions specified in ISO 6395:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Advanced hydraulic systems balance power and efficiency
  - Up to 14% more swing torque maximizes performance to get the job done faster
  - The latest hydraulic oil filter provides longer life with a 3,000-hour replacement interval
  - Eco mode minimizes fuel consumption for light applications
  - One-touch low idle with automatic engine speed control
  - Boost productivity and increase operating efficiency with optional Cat technologies
  - Remote flash and remote troubleshoot

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	59.23%
Iron	10.38%
Nonferrous Metal	2.31%
Mixed Metal	9.46%
Mixed-Metal and Nonmetal	0.01%
Plastic	1.28%
Rubber	3.31%
Mixed Nonmetallic	0.00%
Fluid	7.19%
Other	4.41%
Uncategorized	2.76%
Total	100%

A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714:2008 (Earthmoving machinery – Recyclability and recoverability –Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused, or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714:2008 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 89%

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

AEXQ3019-04 (11-2023)
Replaces AEXQ3019-03
Build Number: 07D
(N Am)